

ORAL PRESENTATION

A1: Water treatment and monitoring

- | | |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| A1-1 | Household wastewater reuse by effective natural filter media |
| 10:30 | -----
R. Arthur James, Bharathidasan University |
| A1-2 | Real-time and on-site monitoring of bacterial cells in aquatic environments by portable microfluidic system |
| 10:55 | -----
N. Yamaguchi, Osaka University, Japan |
| A1-3 | Water Disinfection for Remote Areas of Developing Regions – An Innovative and Sustainable Approach using Solar Technology and Anodic Oxidation |
| 11:20 | -----
Philipp Otter, AUTARCON GmbH, Germany |
| A1-4 | A direct rRNA quantification method using molecular weight cut-off membrane |
| 11:45 | -----
Y. Takemura, Tohoku University, Japan |

B1: Groundwater

- | | |
|-------|------------------------------------------------------------------------------------------------------------------------------------------|
| B1-1 | Assessment of fluoride in groundwater, soil and vegetation and mapping of endemic areas of Gaya district, Bihar, India. |
| 10:30 | -----
Shahla Yasmin, Patna University |
| B1-2 | Groundwater stressed North West India and adaptation strategies under recent global-warming hiatus |
| 10:55 | -----
Partha Sarathi Datta, Independent Consultant on Water and Environment |
| B1-3 | Enhanced dissolution of hydrophobic compounds in Biosurfactant solution |
| 11:20 | -----
Rajender K, Indian Institute of Technology Madras |
| B1-4 | Signature of Stable Isotopes and Dissolved Organic Carbon in groundwater from layered aquifers of Pondicherry region, south India |
| 11:45 | -----
S. Chidambaram, Annamalai University |

A2: Physicochemical Treatment (Kurita session)

- | | |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A2-1
13:15 | RSM and ANN-GA experimental design optimization for electrocoagulation removal of chromium <hr/> Manpreet S. Bhatti, Guru Nanak Dev University |
| A2-2
13:40 | Sunlight-assisted photo-Fenton process for removal of insecticide from agricultural wastewater <hr/> Amrita Datta, University of Calcutta |
| A2-3
14:05 | Catalytic reduction of water contaminant '4-nitrophenol' over manganese oxide supported Ni nanoparticles <hr/> Pangkita Deka, Tezpur University |
| A2-4
14:30 | Ultrasonically triggered aerobic digestion of waste activated sludge: A novel approach for sludge minimization <hr/> Vinay Kumar Tyagi, National Taiwan University, Chinese Taipei |

B2: Natural water

- | | |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B2-1
13:15 | Melt water quality and quantity assessment in the Himalayan Galcier <hr/> AL.Ramanathan, Jawaharlal Nehru University |
| B2-2
13:40 | Shrinking cryosphere and depleting streamflows under changing climate in Kashmir Himalayas <hr/> Shakil A Romshoo, University of Kashmir |
| B2-3
14:05 | Measurement of Isotopic Composition of Atmospheric Water Vapour by National Institute of Hydrology, Roorkee in India <hr/> M.S. Rao, National Institute of Hydrology |
| B2-4
14:30 | Hydrological regimes and zooplankton ecology at Tempe Floodplains, Indonesia: preliminary study before the operation of the downstream barrage <hr/> Reliana Lumban Toruan, Research Centre for Limnology, Indonesia |

A3: Wastewater treatment and monitoring (Kurita session)

- | | |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| A3-1 | Adsorptive Phosphate Removal from Wastewater Using Red Soil as a Natural Adsorbent: Kinetics and Isotherm Studies |
| 16:00 | -----
Rajesh Roshan Dash, Indian Institute of Technology Bhubaneswar |
| A3-2 | Eukaryotic biodiversity in wastewater treatment processes as revealed by 18S rRNA gene clone libraries |
| 16:25 | -----
Kengo Kubota, Tohoku University, Japan |
| A3-3 | Unique sensors for the operation of waste water treatment |
| 16:50 | -----
Makoto Nomura, Kurita Water Industries, Japan |
| A3-4 | Monitoring and controlling the value of F/M ratio at sewage treatment plant by using expert system International Islamic University, Malaysia |
| 17:15 | -----
A. K. Nassereldeen, International Islamic University, Malaysia |

B3: Sociological approach

- | | |
|-------|-------------------------------------------------------------------------------------------------------------------------|
| B3-1 | Farmer's perception of drought, its impacts and adaptation practices: Perspectives from Maharashtra State, India |
| 16:00 | -----
Parmeshwar D. Udmale, University of Yamanashi, Japan |
| B3-2 | Sewerage and Sanitation Planning in Urban India- a proposal for better life and environment |
| 16:25 | -----
Takashi Sakakibara, JICA |
| B3-3 | Application of POSAF methodology in India for implementation of decentralized wastewater technologies |
| 16:50 | -----
Markus Starkl, University of Natural Resources and Life Sciences, Austria |

A4: Biological treatment

- | | |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A4-1
9:00 | Effect of Wastewater Characteristics on Performance of a Lab-scale RBC Treating Biomass Gasifier Wastewater <hr/> Suparna Mukherji, Indian Institute of Technology Bombay |
| A4-2
9:25 | Systematic investigation of biomass, fatty acid productivity and CO₂ sequestration from generator gases by fresh water microalgae in photobioreactors for biodiesel application <hr/> B.Bruno, S.Sandhya, CSIR Complex |
| A4-3
9:50 | Decolorization studies of a novel textile dye degrading bacterium <hr/> S. Menaka Devi, Dolphin Post Graduate College of Life Sciences |
| A4-4
10:15 | Effect of HRT on performance of integrated anaerobic/aerobic MSBR system for treating azo dye-containing wastewater <hr/> Alavi Moghaddam, Mohammad Reza, Amirkabir University of Technology, Iran |

B4: Water Quality

- | | |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B4-1
9:00 | Occurrence and Origin of PAHs in Water from Urban Stretch of River Bharalu, Guwahati, India <hr/> Raza R Hoque, Tezpur University |
| B4-2
9:25 | Occurrence and Origin of PAHs in Water from Urban Stretch of River Bharalu, Guwahati, India <hr/> Arya V, Indian Institute of Technology Madras |
| B4-3
9:50 | Multi drug resistance in waterborne Enterobacteriaceae pathogenic isolates <hr/> Shailendra Kumar, Dr. Ram Manohar Lohia Avadh University |
| B4-4
10:15 | Evaluation of groundwater quality in 14 districts in Sri Lanka - a collaboration research between Sri Lanka and Japan - <hr/> S K Weragoda, National Water Supply and Drainage Board, Sri Lanka |

A5: Water Quality and Risk

- | | |
|-------|---------------------------------------------------------------------------------------------------------------------------|
| A5-1 | Multi-pathway risk assessment of trihalomethanes exposure in drinking water supplies |
| 11:00 | S. K. Gupta, Indian School of Mines |
| <hr/> | |
| A5-2 | A Comparative Study of Influence of Mass Bathing on Water Quality of Brahma and Sannihit Sarovars, Kurukshetra |
| 11:25 | Preetika Bhateja, ITM University |
| <hr/> | |
| A5-3 | Prevalence of viruses and its potential as viral indicator for drinking water safety: case study in Hanoi, Vietnam |
| 11:50 | Jatuwat Sangsanont, the University of Tokyo, Japan |

B5: Arsenic Contamination

- | | |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B5-1 | Groundwater arsenic, arsenic in Quaternary sediments and suspended river sediments in the Middle Ganga Plain, India |
| 11:00 | Babar Ali Shahv, Jadavpur University |
| <hr/> | |
| B5-2 | Fate of more than 480 million inhabitants living in arsenic and fluoride endemic districts of India: Health, socio-economic effects & approaches for mitigation. |
| 11:25 | Dipankar Chakraborti, Jadavpur University |
| <hr/> | |
| B5-3 | Tracing the significance of river for Arsenic enrichment and mobilization |
| 11:50 | M. Kumar, Tezpur University |

POSTER PRESENTATION

Groundwater

- 1 **ARSENIC POLLUTION IN GROUNDWATER OF TARAI REGION AND ITS MITIGATION THROUGH ETHNO BOTANICAL APPROACHES**
Dr. Dhananjay Mani Tripathi, DDU Gorakhpur University
- 2 **Co-contamination of Arsenic and Fluoride in the groundwater of Diphu, Karbi-Anglong, North-eastern India**
Aparna Das, Tezpur University
- 3 **Hydrogeochemistry and heavy metal contamination in Bhatinda and Ropar Districts of Punjab**
Anand Kumar, TERI University
- 4 **IMPACT OF ONSITE SANITATION ON GROUNDWATER QUALITY - A CASE STUDY**
Suman Mor, Panjab University
- 5 **IS HAND PUMP IS POURING PETROLEUM GAS IN SOUTH GANGA BASIN, SAUGOR DISTT. M.P. INDIA.**
Arun K Shandlya, Dr.HSG University
- 6 **Spatial Variation of Groundwater Quality of Gogi region, Yadgir, Karnataka.**
Arunsabarish.B, Anna University
- 7 **Study of variation for arsenic contaminated groundwater using Multivariate Statistical Technique in the rural area of West Bengal**
Somnath Pal, Jadavpur University
- 8 **To study the impact of leachate generation on groundwater quality at Municipal Solid Waste (MSW) Landfill areas of Delhi**
Manju Rawat Ranjan, Amity Institute of Environmental Sciences
- 9 **A study on the nature of U and its speciation in groundwater of a hard rock aquifer in South India**
S.Chidambaram, Annamalai University

Heavy metals/Organic pollutants

- 10 **A Fast & Easy Technique for Isolation and Selection of Phenol Degrading Bacteria From Waste Water and Contaminated Samples**
Mohammed A Fayidh, Anna University
- 11 **Application of Pure Copper Metal as a Potential Algicide**
Mr. Avdesh Bhardawaj, ITM University
- 12 **Effect of Vermiconversion on Heavy Metal Removal in Activated Sludge with**

Special emphasis on Temporal Variation

Sudipta Biswas, Gauhati University

- 13 **Estimation of the benzene degrader and its degradation pathway in methanogenic enrichment cultures using stable isotope probing method**

Dr. Mana Noguchi, The University of Tokyo

- 14 **Microbial Remediation of Hexavalent Chromium from Water – A Promising Technique**

Aliya Naz, Indian School of Mines Dhanbad

- 15 **Phytoremediation Potential of Phragmites karka for Arsenic Contaminated Water by Wetland Design and Construct**

More Nandkishor, Babasaheb Bhimrao Ambedkar University

- 16 **Removal of Heavy Metals Using Rice Husk: A Review**

Sneh Lata, Indian School of Mines Dhanbad

- 17 **TREATMENT OF SEWAGE SLUDGE USING HEAVY METALS ACCUMULATING EARTHWORM SPECIES**

Zeba Usmani, Indian School of Mines Dhanbad

- 18 **Use of Pterospermum acerifolium leaves for biosorptive removal of dye from waste water**

Rupa Sharma, Jawaharlal Nehru University

- 19 **Effect of feed pyridine on removals of phenol, thiocyanate and ammonia in anaerobic-anoxic-aerobic fed batch moving bed reactors**

Saswati Chakraborty, Indian Institute of Technology Guwahati

- 20 **Phytoremediation of As and Cd by two wetland plants of Brahmaputra Valley, Assam, India**

Kali Prasad Sarma, Tezpur University

Sustainability

- 21 **A Study on Seasonal and Temporal Variations in Physio-Chemical and Microbiological Characteristics of River Yamuna in Delhi, India.**

Indu Singh, Indian Council Of Agricultural Research

- 22 **An Integrated Approach for Ground water Recharging: Key to sustainable Water Resource Management (Groundwater management)**

Gourab Banerjee, Jadavpur University

- 23 **Assessment of microbial quality of recycled water used for irrigation of public parks in Dubai, United Arab Emirates.**

Munawwar Ali Khan, Zayed University

- 24 **Occurrence and associated release of arsenic in the sediments of the Brahmaputra River, Assam, India**

Pallavi Das, Tezpur University

25 **Removal of fluoride from water by treated laterite soil**

Vineet Kumar Rathore, Indian Institute of Technology Roorkee

26 **Rainwater harvesting systems for recharging depleted aquifers in parts of Andhra Pradesh, India**

N Janardhana Raju, Jawaharlal Nehru University

27 **Water Stress and Security: An Integrated Approach for Management**

Ms Sneh Gangwar, University of Delhi

Wastewater treatment

28 **A PILOT-SCALE STUDY ON THE PERFORMANCE OF PVA-GEL BASED MOVING BED BIOFILM REACTOR FOR ACTUAL SEWAGE IN INDIA**

Nitin Kumar Singh, Indian Institute of Technology Roorkee

29 **Aerobic sludge granulation in sequencing batch reactors under two different feeding strategies**

Alavi Moghaddam, Mohammad Reza, Amirkabir University of Technology

30 **Application of Rapid Enhanced Effective Micro-organisms (REEM) in Oil and Grease Trap from Canteen Wastewater**

Thipsuree Kornboonraksa, Thammasat University

31 **Combining bioreactors and photo catalysis in treatment of wastewater from coke oven industry**

Naresh Sharma, Indian Institute of Technology Madras

32 **Development of energy-saving sewage treatment technology by combining of UASB and DHS reactor**

Masanobu TAKAHASHI, Tohoku University, Japan

33 **Evaluation of maintenance coefficient induced by high bulk liquor DO for onsite excess sludge reduction**

Anwar Khursheed, Aligarh Muslim University

34 **Microbial community structure of practical-scale Down-flow Hanging Sponge reactor treating municipal wastewater in India**

Akinori IGUCHI, Niigata University of Pharmacy and Applied Life Sciences

35 **Optimization of photocatalytic post treatment of composting leachate using UV/TiO₂**

Nader Mokhtarani, Tarbiat Modares University

36 **PLANNING, DESIGNING, MONITORING AND INSPECTION OF WASTEWATER TREATMENT SYSTEMS OF INDUSTRIES**

Sameer kumar, Delhi College of Engineering

37 **The degradation and decolorization of azo Acid Red 18 by Fenton process: Optimization by response surface methodology**

Alavi Moghaddam, Mohammad Reza, Amirkabir University of Technology

- 38 **Treatment of MTBE contaminated water by means of ozonation and granular activated carbon (GAC) adsorption**

Nader Mokhtarani, Tarbiat Modares University

- 39 **Treatment of Leachate from Tropical Landfills Using Sequencing Batch Reactor**

Shameen Jinadasa, University of Peradeniya, Sri Lanka

Water and aquatic resource

- 40 **Catalytic conversion of toxic Cr(VI) to less toxic Cr(III) using formic acid and bimetallic CuNi nanocatalysts**

Himadri Saikia, Tezpur University

- 41 **Climate change and water environment**

Pragati Rai, Indian School of Mines Dhanbad,

- 42 **Genotoxicity Assessment of the Leachate from Fly Ash Pond Using the Trad-MCN Bioassay, Guru Ghasidas Vishwavidyalaya**

Neelima Meravi, Dr Santosh Kumar Prajapati, Guru Ghasidas Vishwavidyalaya

- 43 **Geochemical versus microbial pollution: a study from Tamiraparani river basin, southern India, Bharathidasan University**

R. ARTHUR JAMES, Bharathidasan University

- 44 **Ground Water Quality Evaluation in a Stretch of Rural Tezpur, Assam (India)**

Kamal Uddin Ahamad, Tezpur University

- 45 **Sewage sludge composting in a rotary drum reactor: Optimizing the carbon-to-nitrogen ratio**

Ashish Kumar Nayak, Indian Institute of Technology Guwahati

- 46 **Simulation of nitrate removal in a batch flow electrocoagulation-flotation (ECF) process by response surface method (RSM)**

Alavi Moghaddam, Mohammad Reza, Amirkabir University of Technology

- 47 **Spatio-temporal Analysis the Magnitude of Change in Quantity and Quality of Groundwater in Bhiwani District (Haryana)**

Pawan Kumar, Jawaharlal Nehru University

- 48 **TRANSPORT OF NITROGEN IN RIVER SYSTEM AND ITS MANAGEMENT**

Pawan Kumar Jha, Shikha Sharma, Amity University